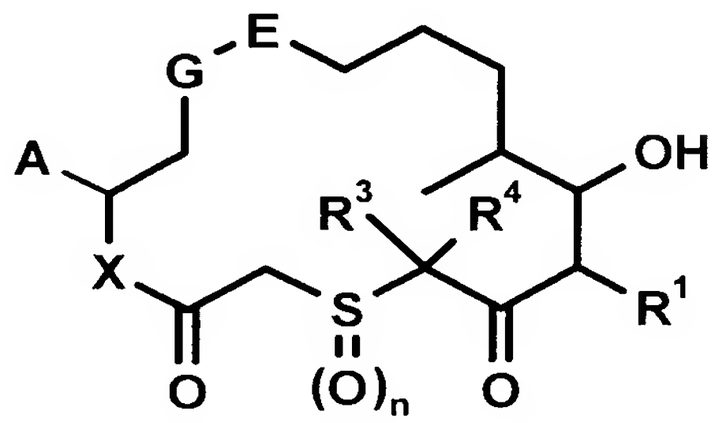
AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) ~~Compounds~~ A compound of the general formula (I):

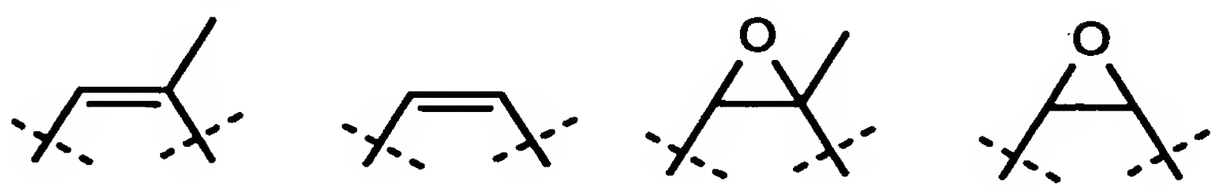


(I)

wherein

A is a heteroalkyl-, heterocycloalkyl-, heteroalkyl-cycloalkyl-, heteroaryl- or heteroarylalkyl group,

G-E is selected from the following groups,



or is part of an optionally substituted cyclpropyl ring,

n is 0, 1 or 2,

R^1 is a C_1-C_4 alkyl- or a C_3-C_4-cycloalkyl group,

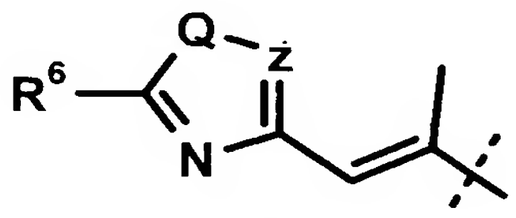
X is oxygen or a group of the formula NR^2, wherein R^2 is hydrogen, OH, NH_2, NH(Alkyl), N(alkyl)$_2$, a alkyl-, alkenyl-, alkynyl-, hetero-alkyl-, aryl-, heteroaryl-, cycloalkyl-, alkylcyclo-alkyl-, heteroalkylcycloalkyl-, heterocycloalkyl-, aralkyl- or a heteroaralkyl group,

R^3 and R^4 are independently of each other hydrogen, a C_1-C_4 alkyl group or together are part of a cycloalkyl group with 3 or 4 ring atoms,

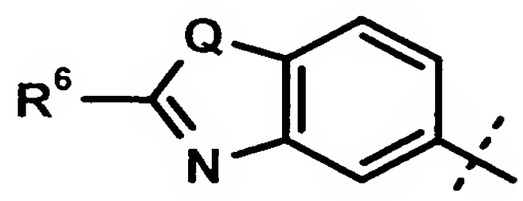
or a pharmacologically acceptable salt, solvate, hydrate or a pharmacologically acceptable formulation thereof.

2. (Currently Amended) ~~Compounds~~ A compound according to claim 1, wherein A is a group of the formula $-C(CH_3)=CHR^5$, $-C(C_2H_5)=CHR^5$, $-C(Cl)=CHR^5$ or $-CH=CHR^5$, wherein R^5 is a heteroaryl- or a heteroarylalkyl group.

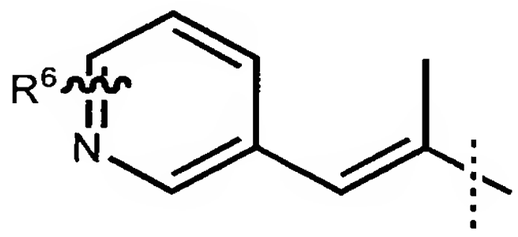
3. (Currently Amended) ~~Compounds~~ A compound according to claim 1, wherein A is a group of the general formula (II), (III), (IV), or ~~to~~ (V)~~, preferentially (II) or (III)~~:



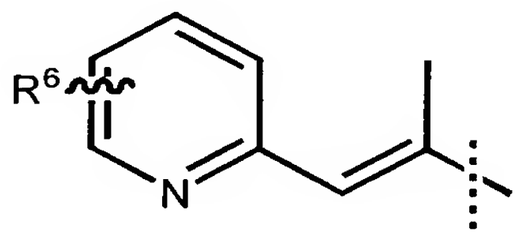
(II)



(III)



IV



V

wherein

Q is a sulphur, oxygen or a group of the formula NR^7 ~~is~~, wherein R^7 is hydrogen, a C_1-C_4 alkyl group or a C_1-C_4-heteroalkyl group, z is nitrogen or a CH group and R^6 is a group of the formula OR^8 or NHR^8, a alkyl-, alkenyl, alkinyl- or a heteroalkyl group, wherein R^8 is hydrogen, a C_1-C_4-alkyl group or a C_1-C_4-heteroalkyl group.

4. (Currently Amended) ~~Compounds~~ A compound according to claim 3, wherein z is a CH-group.

5. (Currently Amended) ~~Compounds~~ A compound according to claim 3 ~~or 4~~, wherein Q is sulphur or oxygen.

6. (Currently Amended) ~~Compounds~~ A compound according to claim 3 ~~the claims 3 to 5~~, wherein R^6 is a group of the formula CH_3, CH_2OH or CH_2NH_2.

7. (Currently Amended) ~~Compounds~~ A compound according to claim 1 ~~the claims 1 to 6~~, wherein X is oxygen.

8. (Currently Amended) ~~Compounds~~ A compound according to claim 1 ~~the claims 1 to 7~~, wherein R^1 is a methyl group.

9. (Currently Amended) ~~Compounds~~ A compound according to claim 1 ~~the claims 1 to 8~~, wherein R^3 and R^4 are methyl groups.

10. (Currently Amended) A method of synthesizing the compound of claim 1 comprising the use of (1,1-Dialkyl-2-oxo-butylsulfanyl)-acetic acid ~~and ist~~ or its derivatives as an intermediate, wherein the derivatives are selected from the group consisting of ~~building blocks for the syntheses of compounds (I). Derivates are compounds with variations in analogy to the C1-C6-moiety and building blocks of 3-thiaepothilones (I), especially~~ sulfoxides, sulfones, esters, amides, 3-haloderivates, (3-bromo-1,1-dimethyl-2-oxo-butylsulfanyl)-acetic acid esters of methanol and ethanol, and sulfoxides of methanol and ethanol.

11. (Currently Amended) A pharmaceutical composition ~~Pharmaceutical compositions~~ containing a compound according to claim 1 ~~any one of the claims 1 to 9~~ and optionally a carrier and/or adjuvants.

12. (Currently Amended) A method of treating cancer in a human comprising administering ~~Use of a~~ the compound of claim 1 to the human ~~or a pharmaceutical composition according to any one of the preseding claims 1 to 10 for the treatment of cancer diseases~~.

13. (New) A method of treating cancer in a human comprising administering the pharmaceutical composition of claim 11 to the human.